

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/576,358
Source: TFWP
Date Processed by STIC: 5-1-06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/576,358

CRF Edit Date: 5-1-06
Edited by: ZC

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ✓ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



IFWP

RAW SEQUENCE LISTING

DATE: 05/01/2006

PATENT APPLICATION: US/10/576,358

TIME: 12:15:15

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\05012006\J576358.raw

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5 <110> APPLICANT: Smith, Austin, Gerard
6     Ying, Qi-Long
7     Nichols, Jennifer
10 <120> TITLE OF INVENTION: Improved Control Of ES Cell Self Renewal And Lineage
Specification, And
11     Medium Therefor
14 <130> FILE REFERENCE: 09641.0011-00000
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/576,358
18 <141> CURRENT FILING DATE: 2006-04-17
21 <150> PRIOR APPLICATION NUMBER: GB 0324270.8
22 <151> PRIOR FILING DATE: 2003-10-16
24 <150> PRIOR APPLICATION NUMBER: GB 0324378.9
25 <151> PRIOR FILING DATE: 2003-10-17
27 <150> PRIOR APPLICATION NUMBER: GB 0325007.3
28 <151> PRIOR FILING DATE: 2003-10-27
30 <160> NUMBER OF SEQ ID NOS: 9
33 <170> SOFTWARE: PatentIn version 3.1
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37 <211> LENGTH: 119
38 <212> TYPE: PRT
39 <213> ORGANISM: Mus sp.
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45 1          5          10          15
48 Leu Ser Glu Arg Ser Leu Ala Ile Ala Arg Gly Arg Gly Lys Ser Pro
49          20          25          30
52 Ser Thr Glu Glu Pro Leu Ser Leu Asp Asp Met Asn His Cys Tyr
53          35          40          45
56 Ser Arg Leu Arg Glu Leu Val Pro Gly Val Pro Arg Gly Thr Gln Leu
57          50          55          60
60 Ser Gln Val Glu Ile Leu Gln Arg Val Ile Asp Tyr Ile Leu Asp Leu
61 65          70          75          80
64 Gln Val Val Leu Ala Glu Pro Ala Pro Gly Pro Pro Asp Gly Pro His
65          85          90          95
68 Leu Pro Ile Gln Thr Ala Glu Leu Thr Pro Glu Leu Val Ile Ser Lys
69          100         105         110
72 Asp Lys Arg Ser Phe Cys His
73          115
76 <210> SEQ ID NO: 2
77 <211> LENGTH: 119
78 <212> TYPE: PRT
79 <213> ORGANISM: Rattus sp.
82 <400> SEQUENCE: 2
84 Met Lys Ala Leu Ser Pro Val Arg Gly Cys Tyr Glu Ala Val Cys Cys

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85 1          5          10          15
88 Leu Ser Glu Arg Ser Leu Ala Ile Ala Arg Gly Arg Gly Lys Ser Pro
89          20          25          30
92 Ser Ala Glu Glu Pro Leu Ser Leu Leu Asp Asp Met Asn His Cys Tyr
93          35          40          45
96 Ser Arg Leu Arg Glu Leu Val Pro Gly Val Pro Arg Gly Thr Gln Leu
97          50          55          60
100 Ser Gln Val Glu Ile Leu Gln Arg Val Ile Asp Tyr Ile Leu Asp Leu
101 65          70          75          80
104 Gln Val Val Leu Ala Glu Pro Ala Pro Gly Pro Pro Asp Gly Pro His
105          85          90          95
108 Leu Pro Ile Gln Thr Ala Glu Leu Thr Pro Glu Leu Val Ile Ser Lys
109          100          105          110
112 Asp Lys Arg Ser Phe Cys His
113          115
117 <210> SEQ ID NO: 3
118 <211> LENGTH: 119
119 <212> TYPE: PRT
120 <213> ORGANISM: Canis sp.
123 <400> SEQUENCE: 3
125 Met Lys Ala Leu Ser Pro Val Arg Gly Cys Tyr Glu Ala Val Cys Cys
126 1          5          10          15
129 Leu Ser Glu Arg Ser Leu Ala Ile Ala Arg Gly Arg Gly Lys Gly Pro
130          20          25          30
133 Ala Ala Glu Glu Pro Leu Ser Leu Leu Asp Asp Met Asn His Cys Tyr
134          35          40          45
137 Ser Arg Leu Arg Glu Leu Val Pro Gly Val Pro Arg Gly Thr Gln Leu
138          50          55          60
141 Ser Gln Val Glu Ile Leu Gln Arg Val Ile Asp Tyr Ile Leu Asp Leu
142 65          70          75          80
145 Gln Val Val Leu Ala Glu Pro Ala Pro Gly Pro Pro Asp Gly Pro His
146          85          90          95
149 Leu Pro Ile Gln Thr Ala Glu Leu Ala Pro Glu Leu Val Ile Ser Asn
150          100          105          110
153 Asp Lys Arg Ser Phe Cys His
154          115
157 <210> SEQ ID NO: 4
158 <211> LENGTH: 119
159 <212> TYPE: PRT
160 <213> ORGANISM: Homo sapiens
163 <400> SEQUENCE: 4
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169 Leu Ser Glu Arg Ser Leu Ala Ile Ala Arg Gly Arg Gly Lys Gly Pro
170          20          25          30
173 Ala Ala Glu Glu Pro Leu Ser Leu Leu Asp Asp Met Asn His Cys Tyr
174          35          40          45
177 Ser Arg Leu Arg Glu Leu Val Pro Gly Val Pro Arg Gly Thr Gln Leu
178          50          55          60

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Input Set : A:\PTO.KD.txt

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181 Ser Gln Val Glu Ile Leu Gln Arg Val Ile Asp Tyr Ile Leu Asp Leu
182 65              70              75              80
185 Gln Val Val Leu Ala Glu Pro Ala Pro Gly Pro Pro Asp Gly Pro His
186              85              90              95
189 Leu Pro Ile Gln Thr Ala Glu Leu Ala Pro Glu Leu Val Ile Ser Asn
190              100              105              110
193 Asp Lys Arg Ser Phe Cys His
194              115
197 <210> SEQ ID NO: 5
198 <211> LENGTH: 11
199 <212> TYPE: PRT
200 <213> ORGANISM: Human immunodeficiency virus
203 <400> SEQUENCE: 5
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209 <210> SEQ ID NO: 6
210 <211> LENGTH: 16
211 <212> TYPE: PRT
212 <213> ORGANISM: Antennapedia
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222 <211> LENGTH: 130
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
229 <223> OTHER INFORMATION: synthetic
231 <400> SEQUENCE: 7
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234 1              5              10              15
237 Pro Val Arg Gly Cys Tyr Glu Ala Val Cys Cys Leu Ser Glu Arg Ser
238              20              25              30
241 Leu Ala Ile Ala Arg Gly Arg Gly Lys Gly Pro Ala Ala Glu Glu Pro
242              35              40              45
245 Leu Ser Leu Leu Asp Asp Met Asn His Cys Tyr Ser Arg Leu Arg Glu
246              50              55              60
249 Leu Val Pro Gly Val Pro Arg Gly Thr Gln Leu Ser Gln Val Glu Ile
250 65              70              75              80
253 Leu Gln Arg Val Ile Asp Tyr Ile Leu Asp Leu Gln Val Val Leu Ala
254              85              90              95
257 Glu Pro Ala Pro Gly Pro Pro Asp Gly Pro His Leu Pro Ile Gln Thr
258              100              105              110
261 Ala Glu Leu Ala Pro Glu Leu Val Ile Ser Asn Asp Lys Arg Ser Phe
262              115              120              125
265 Cys His
266              130
269 <210> SEQ ID NO: 8
270 <211> LENGTH: 135

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RAW SEQUENCE LISTING

DATE: 05/01/2006

PATENT APPLICATION: US/10/576,358

TIME: 12:15:15

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\05012006\J576358.raw

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271 <212> TYPE: PRT
272 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
277 <223> OTHER INFORMATION: synthetic
279 <400> SEQUENCE: 8
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285 Met Lys Ala Leu Ser Pro Val Arg Gly Cys Tyr Glu Ala Val Cys Cys
286 20 25 30
289 Leu Ser Glu Arg Ser Leu Ala Ile Ala Arg Gly Arg Gly Lys Gly Pro
290 35 40 45
293 Ala Ala Glu Glu Pro Leu Ser Leu Leu Asp Asp Met Asn His Cys Tyr
294 50 55 60
297 Ser Arg Leu Arg Glu Leu Val Pro Gly Val Pro Arg Gly Thr Gln Leu
298 65 70 75 80
301 Ser Gln Val Glu Ile Leu Gln Arg Val Ile Asp Tyr Ile Leu Asp Leu
302 85 90 95
305 Gln Val Val Leu Ala Glu Pro Ala Pro Gly Pro Pro Asp Gly Pro His
306 100 105 110
309 Leu Pro Ile Gln Thr Ala Glu Leu Ala Pro Glu Leu Val Ile Ser Asn
310 115 120 125
313 Asp Lys Arg Ser Phe Cys His
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317 <210> SEQ ID NO: 9
318 <211> LENGTH: 135
319 <212> TYPE: PRT
320 <213> ORGANISM: Artificial sequence
323 <220> FEATURE:
325 <223> OTHER INFORMATION: synthetic
327 <400> SEQUENCE: 9
329 Met Lys Ala Leu Ser Pro Val Arg Gly Cys Tyr Glu Ala Val Cys Cys
330 1 5 10 15
333 Leu Ser Glu Arg Ser Leu Ala Ile Ala Arg Gly Arg Gly Lys Ser Pro
334 20 25 30
337 Ser Thr Glu Glu Pro Leu Ser Leu Leu Asp Asp Met Asn His Cys Tyr
338 35 40 45
341 Ser Arg Leu Arg Glu Leu Val Pro Gly Val Pro Arg Gly Thr Gln Leu
342 50 55 60
345 Ser Gln Val Glu Ile Leu Gln Arg Val Ile Asp Tyr Ile Leu Asp Leu
346 65 70 75 80
349 Gln Val Val Leu Ala Glu Pro Ala Pro Gly Pro Pro Asp Gly Pro His
350 85 90 95
353 Leu Pro Ile Gln Thr Ala Glu Leu Thr Pro Glu Leu Val Ile Ser Lys
354 100 105 110
357 Asp Lys Arg Ser Phe Cys His Arg Gln Ile Lys Ile Trp Phe Gln Asn
358 115 120 125
361 Arg Arg Met Lys Trp Lys Lys
362 130 135

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VERIFICATION SUMMARY

PATENT APPLICATION: **US/10/576,358**

DATE: 05/01/2006

TIME: 12:15:16

Input Set : **A:\PTO.KD.txt**

Output Set: **N:\CRF4\05012006\J576358.raw**

L:17 M:270 C: Current Application Number differs, Replaced Current Application Number

Raw Sequence Listing before editing (for reference only)



IFWP

RAW SEQUENCE LISTING

DATE: 04/28/2006

PATENT APPLICATION: US/10/576,358

TIME: 09:57:36

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\04282006\J576358.raw

5 <110> APPLICANT: Smith, Austin, Gerard
 6 Ying, Qi-Long
 7 Nichols, Jennifer
 10 <120> TITLE OF INVENTION: Improved Control Of ES Cell Self Renewal And Lineage
 Specification, And
 11 Medium Therefor
 14 <130> FILE REFERENCE: 09641.0011-00000
 C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/576,358
 18 <141> CURRENT FILING DATE: 2006-04-17
 21 <150> PRIOR APPLICATION NUMBER: GB 0324270.8
 22 <151> PRIOR FILING DATE: 2003-10-16
 24 <150> PRIOR APPLICATION NUMBER: GB 0324378.9
 25 <151> PRIOR FILING DATE: 2003-10-17
 27 <150> PRIOR APPLICATION NUMBER: GB 0325007.3
 28 <151> PRIOR FILING DATE: 2003-10-27
 30 <160> NUMBER OF SEQ ID NOS: 9
 33 <170> SOFTWARE: PatentIn version 3.1

Does Not Comply
 Corrected Diskette Needed

(pg. 2) ↗

ERRORED SEQUENCES

317 <210> SEQ ID NO: 9
 318 <211> LENGTH: 135
 319 <212> TYPE: PRT
 320 <213> ORGANISM: Artificial sequence
 323 <220> FEATURE:
 325 <223> OTHER INFORMATION: synthetic
 327 <400> SEQUENCE: 9
 329 Met Lys Ala Leu Ser Pro Val Arg Gly Cys Tyr Glu Ala Val Cys Cys
 330 1 5 10 15
 333 Leu Ser Glu Arg Ser Leu Ala Ile Ala Arg Gly Arg Gly Lys Ser Pro
 334 20 25 30
 337 Ser Thr Glu Glu Pro Leu Ser Leu Leu Asp Asp Met Asn His Cys Tyr
 338 35 40 45
 341 Ser Arg Leu Arg Glu Leu Val Pro Gly Val Pro Arg Gly Thr Gln Leu
 342 50 55 60
 345 Ser Gln Val Glu Ile Leu Gln Arg Val Ile Asp Tyr Ile Leu Asp Leu
 346 65 70 75 80
 349 Gln Val Val Leu Ala Glu Pro Ala Pro Gly Pro Pro Asp Gly Pro His
 350 85 90 95
 353 Leu Pro Ile Gln Thr Ala Glu Leu Thr Pro Glu Leu Val Ile Ser Lys
 354 100 105 110
 357 Asp Lys Arg Ser Phe Cys His Arg Gln Ile Lys Ile Trp Phe Gln Asn
 358 115 120 125

RAW SEQUENCE LISTING

DATE: 04/28/2006

PATENT APPLICATION: US/10/576,358

TIME: 09:57:36

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\04282006\J576358.raw

361 Arg Arg Met Lys Trp Lys Lys

362 130 135

E--> 371 1

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/576,358

DATE: 04/28/2006

TIME: 09:57:37

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\04282006\J576358.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application Number

L:371 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:9 ✓